

AMENDMENTS

In the Claims:

Please amend the claims as indicated hereafter.

1. (Previously Presented) A method for echo cancellation in a communication system utilizing a bidirectional transmission medium, said method comprising the steps of:

- (a) generating a first signal at a first sampling rate within said first frequency band;
- (b) transmitting said first signal in a first direction through said bidirectional medium;
- (c) receiving a second signal in a second direction through said bidirectional medium at a second sampling rate within a second frequency band, said first and second frequency bands being partially overlapped, said second sampling rate being less than said first sampling rate; and,
- (d) canceling said echo from said second signal, said canceling step including the step of replicating said echo by sampling said first signal at said second sampling rate, whereby said echo canceling is performed within said second frequency band.

2. – 5. (Canceled)

6. (Previously Presented) An apparatus for echo cancellation in a communication system utilizing a bidirectional transmission medium, said apparatus comprising:

(a) an information source for generating a first signal at a first sampling rate within said first frequency band, said first signal characterized by an echo at said first sampling rate within said first frequency band;

(b) a transmitter for transmitting said first signal in a first direction through said bidirectional medium;

(c) a receiver for receiving a second signal in a second direction through said bidirectional medium at a second sampling rate within a second frequency band, said first and second frequency bands being partially overlapped, said second sampling rate being less than said first sampling rate; and,

(d) an echo canceler for canceling said echo from said second signal, said canceler comprising an echo replica unit for replicating said echo by sampling said first signal at said second sampling rate, the combination being so constructed and arranged that said canceling is performed within said second frequency band.

7.-10. (Canceled)

11. (New) The method of claim 1, wherein said first signal has a first baud rate and said second signal has a second baud rate.

12. (New) The method of claim 11, wherein said first baud rate is greater than the second baud rate.

13. (New) The method of claim 1, wherein said replicating step further comprises decimating said second signal.

14. (New) The apparatus of claim 6, wherein said first signal has a first baud rate and said second signal has a second baud rate.

15. (New) The apparatus of claim 14, wherein said first baud rate is greater than the second baud rate.

16. (New) The apparatus of claim 6, wherein said receiver is configured to decimate said second signal.